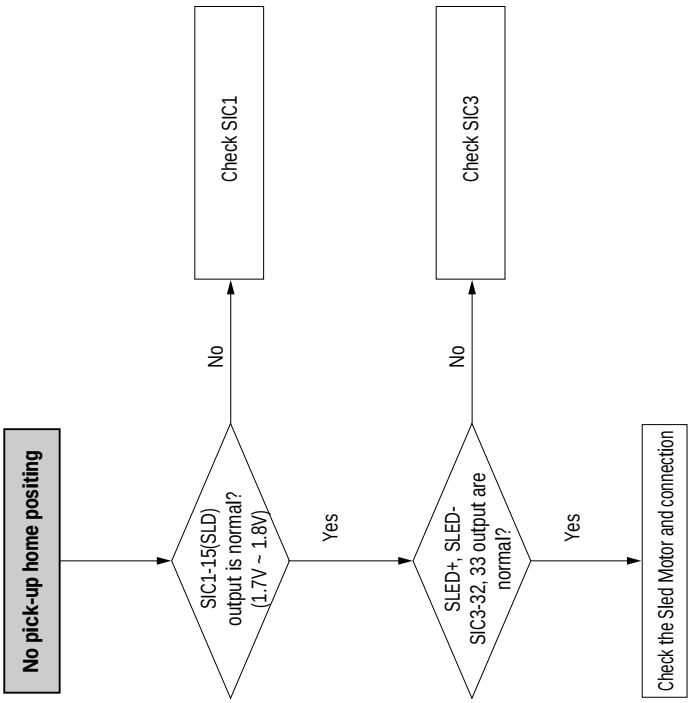
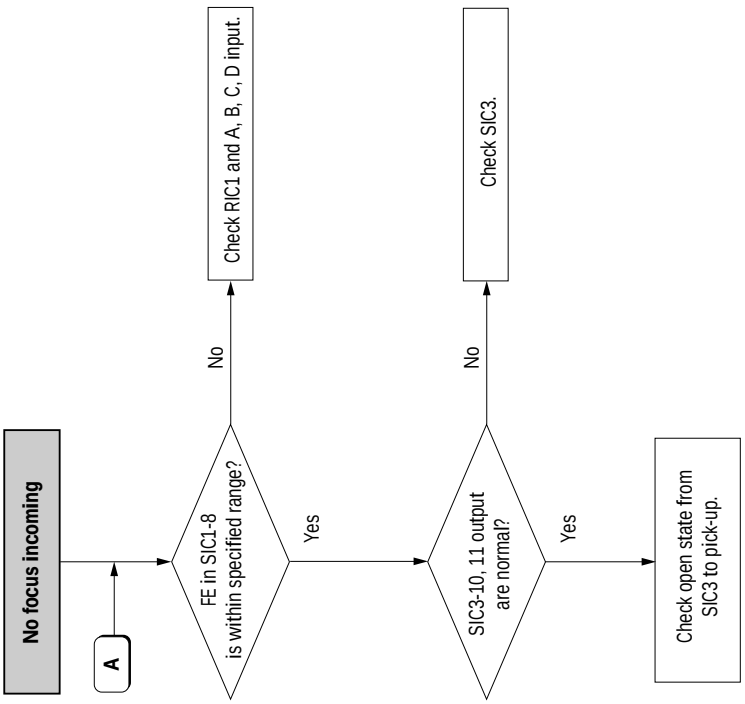
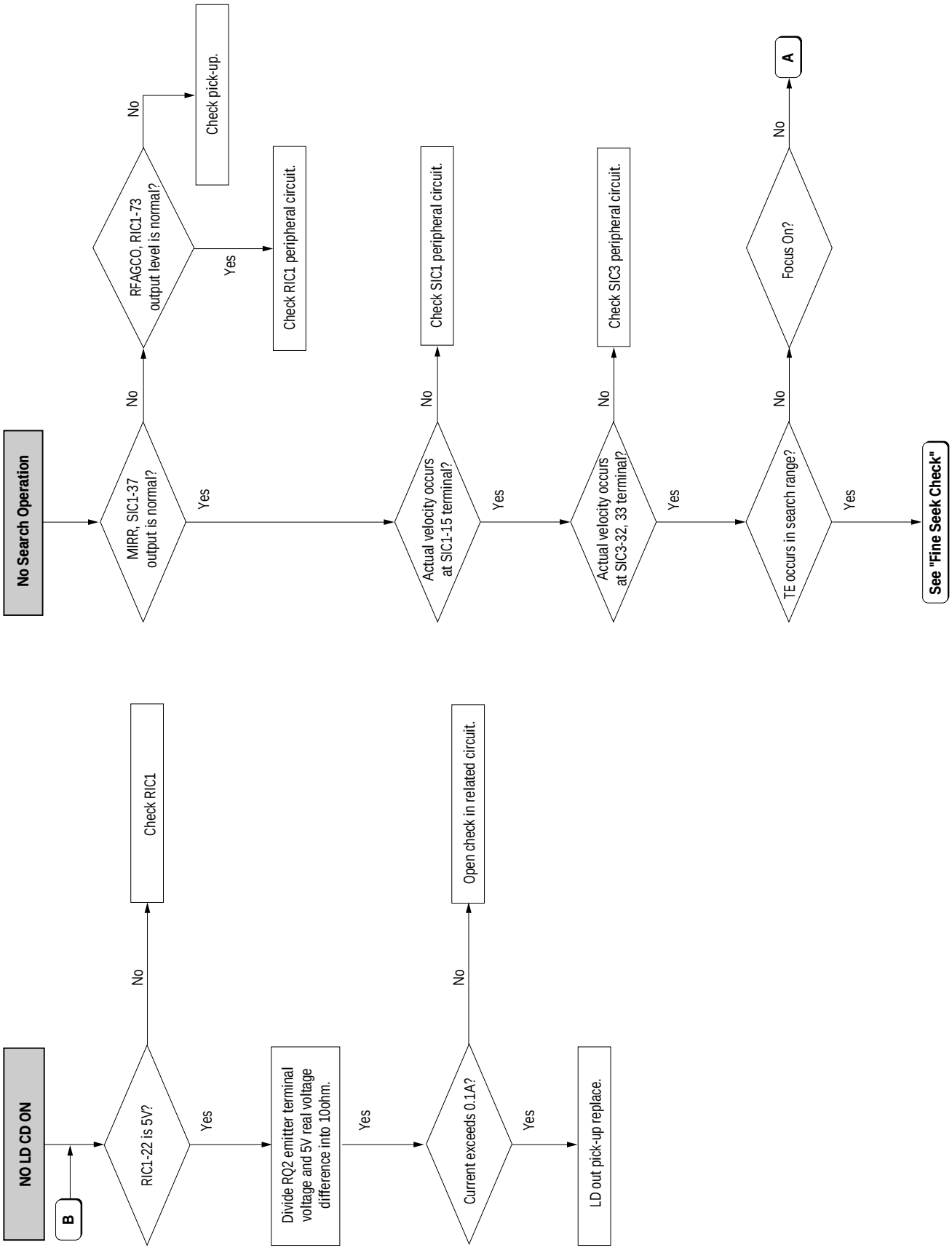
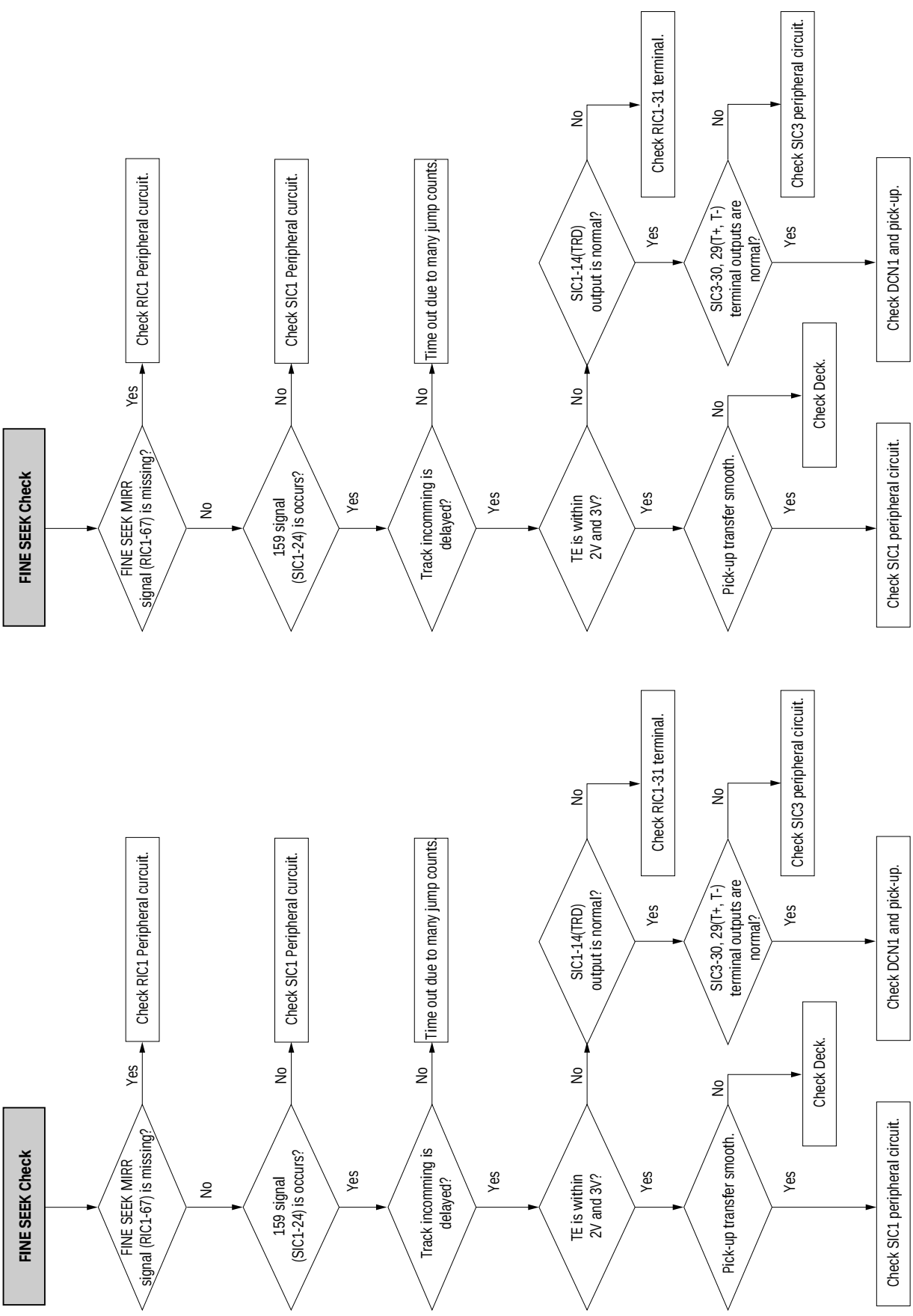
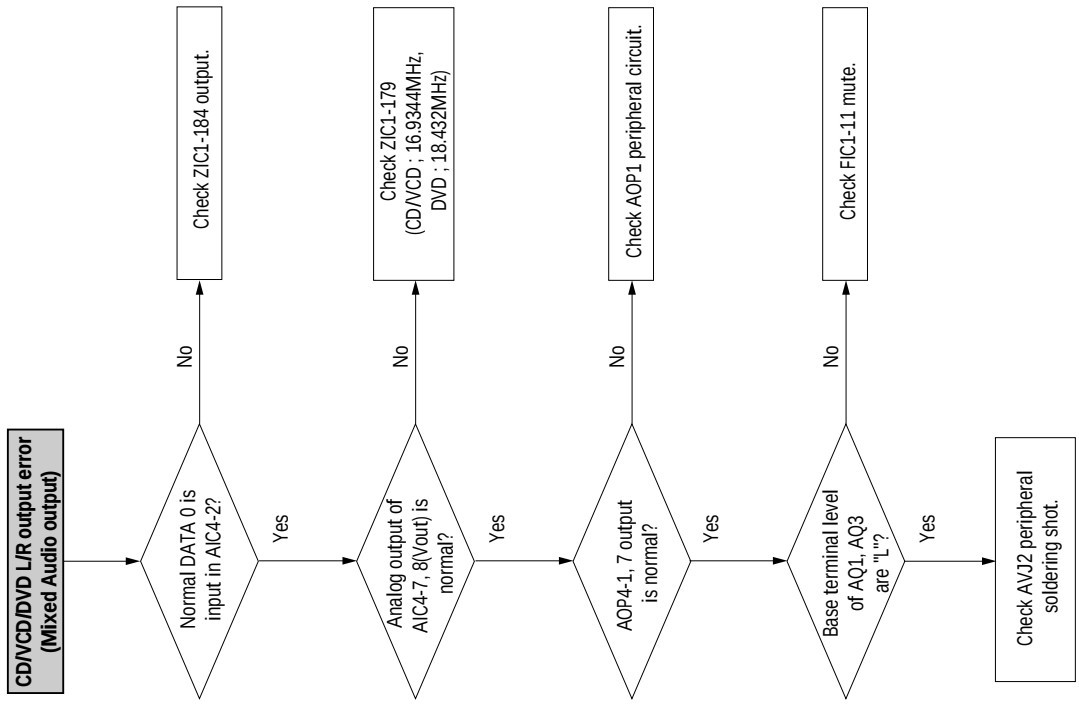
8. Troubleshooting

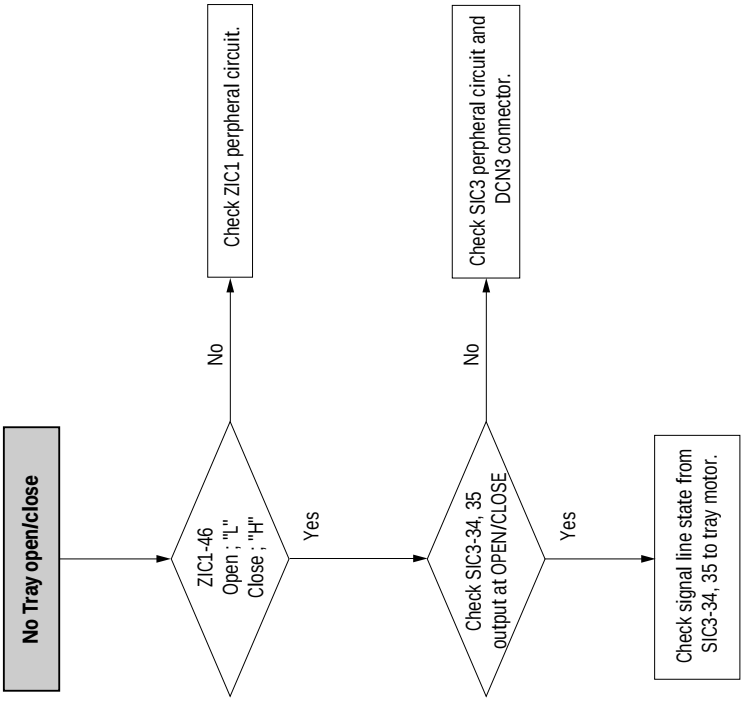


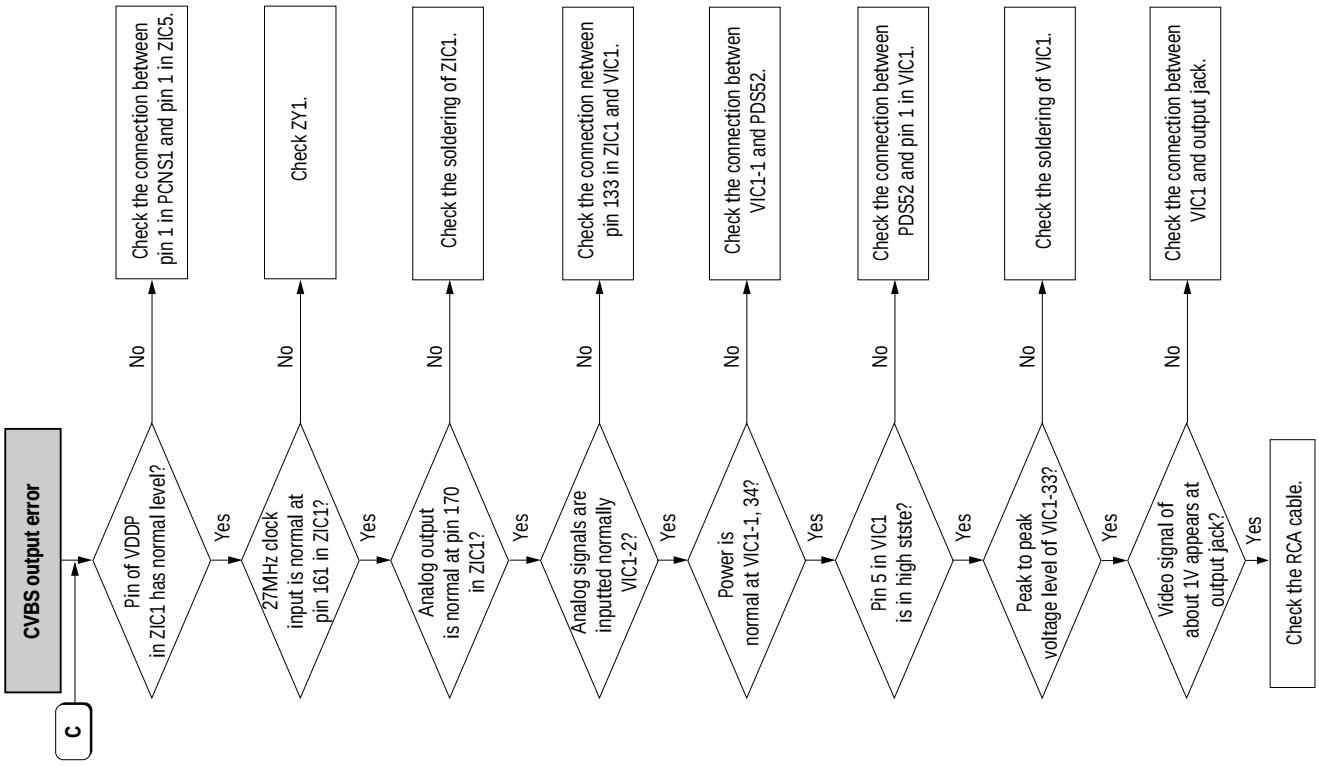


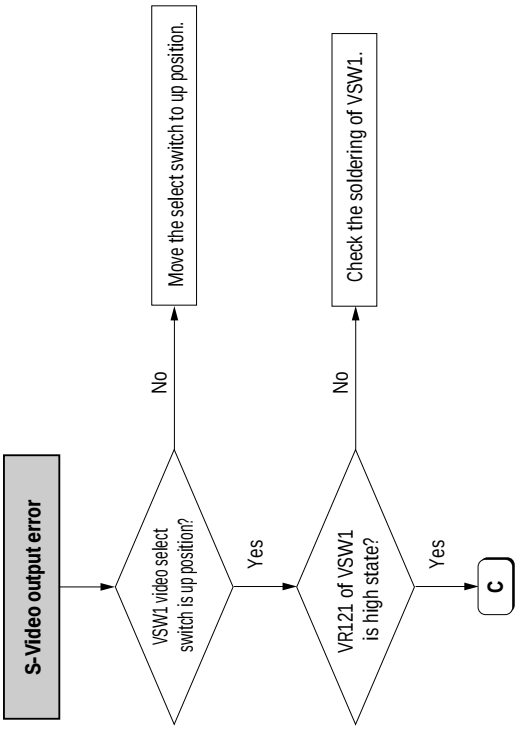

No Search Operation
MIRR, SIC1-37 output is normal?
No
Yes
RFAGCO, RIC1-73 output level is normal?
No
Check pick-up.
Yes
Check RIC1 peripheral circuit.
Actual velocity occurs at SIC1-15 terminal?
No
Check SIC1 peripheral circuit.
Yes
Actual velocity occurs at SIC3-32, 33 terminal?
No
Check SIC3 peripheral circuit.
Yes
TE occurs in search range?
No
Focus On?
No
A
Yes
See "Fine Seek Check"
NO LD CD ON
B
RIC1-22 is 5V?
No
Check RIC1
Yes
Divide RQ2 emitter terminal voltage and 5V real voltage difference into 10ohm.
Yes
Current exceeds 0.1A?
No
Open check in related circuit.
Yes
LD out pick-up replace.

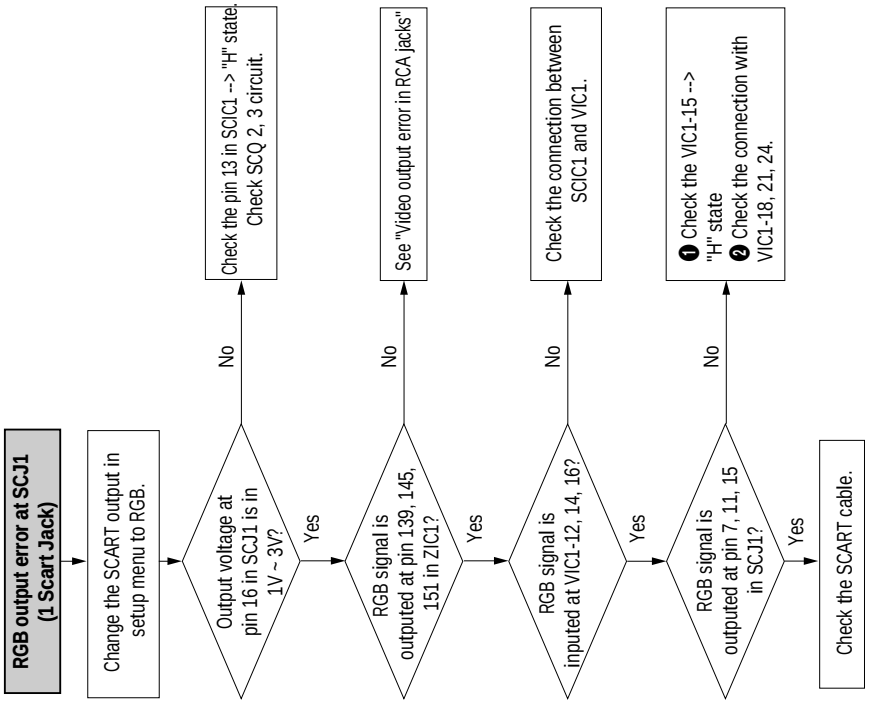

FINE SEEK Check
FINE SEEK MIRR signal (RIC1-67) is missing?
Yes
Check RIC1 Peripheral curcuit.
No
159 signal (SIC1-24) is occurs?
No
Check SIC1 Peripheral curcuit.
Yes
Track incomming is delayed?
No
Time out due to many jump counts.
Yes
TE is within 2V and 3V?
No
SIC1-14(TRD) output is normal?
No
Check RIC1-31 terminal.
Yes
Pick-up transfer smooth.
No
Check Deck.
Yes
SIC3-30, 29(T+, T-) terminal outputs are normal?
No
Check SIC3 peripheral circuit.
Yes
Check SIC1 peripheral circuit.
Check DCN1 and pick-up.

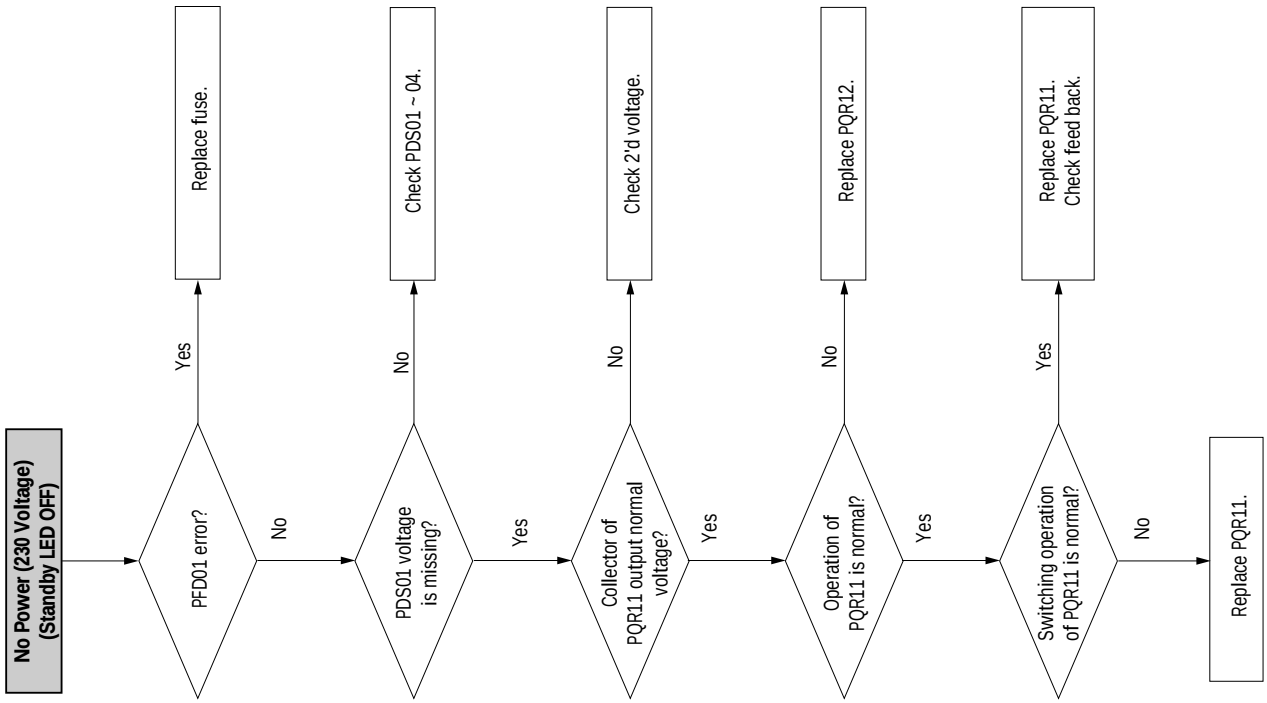

CD/VCD/DVD L/R output error (Mixed Audio output)
Normal DATA 0 is input in AIC4-2?
No
Check ZIC1-184 output.
Yes
Analog output of AIC4-7, 8(Vout) is normal?
No
Check ZIC1-179 (CD/VCD : 16.9344MHz, DVD : 18.432MHz)
Yes
AOP4-1, 7 output is normal?
No
Check AOP1 peripheral circuit.
Yes
Base terminal level of AQ1, AQ3 are "L"?
No
Check FIC1-11 mute.
Yes
Check AVJ2 peripheral soldering shot.

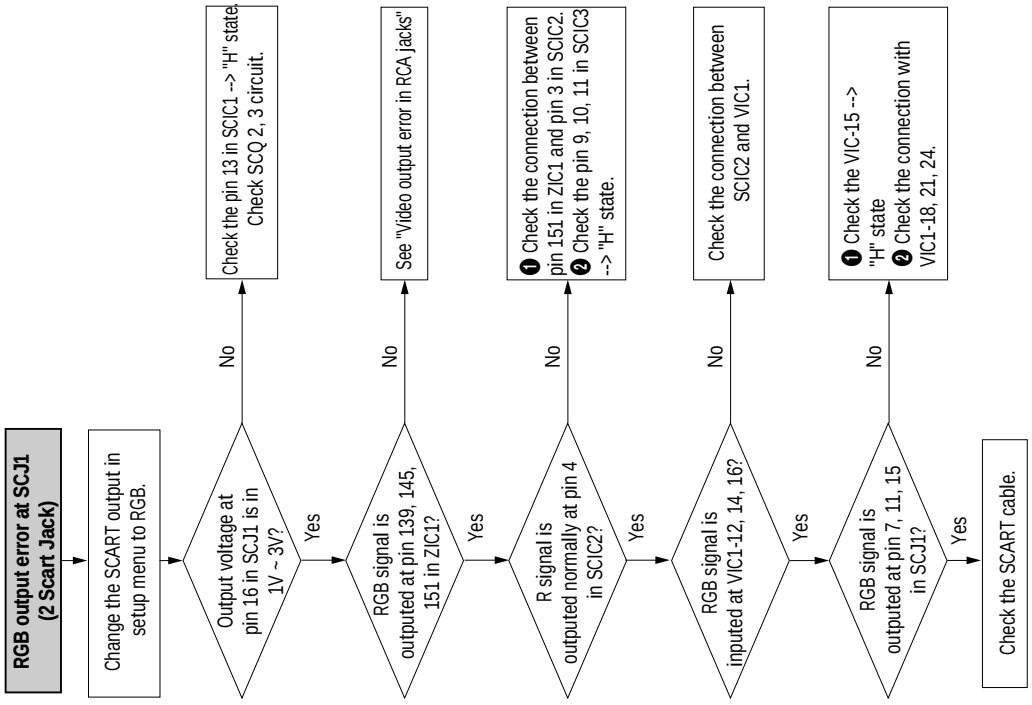

No Tray open/close
ZIC1-46 Open : "L" Close : "H"
No
Check ZIC1 perpheral circuit.
Yes
Check SIC3-34, 35 output at OPEN/CLOSE
No
Check SIC3 perpheral circuit and DCN3 connector.
Yes
Check signal line state from SIC3-34, 35 to tray motor.


CVBS output error
C
Pin of VDDP in ZIC1 has normal level?
No
Check the connection between pin 1 in PCNS1 and pin 1 in ZIC5.
Yes
27MHz clock input is normal at pin 161 in ZIC1?
No
Check ZY1.
Yes
Analog output is normal at pin 170 in ZIC1?
No
Check the soldering of ZIC1.
Yes
Analog signals are inputted normally VIC1-2?
No
Check the connection netween pin 133 in ZIC1 and VIC1.
Yes
Power is normal at VIC1-1, 34?
No
Check the connection betwen VIC1-1 and PDS52.
Yes
Pin 5 in VIC1 is in high stste?
No
Check the connection between PDS52 and pin 1 in VIC1.
Yes
Peak to peak voltage level of VIC1-33?
No
Check the soldering of VIC1.
Yes
Video signal of about 1V appears at output jack?
No
Check the connection between VIC1 and output jack.
Yes
Check the RCA cable.


S-Video output error
VSW1 video select switch is up position?
No
Move the select switch to up position.
Yes
VR121 of VSW1 is high state?
No
Check the soldering of VSW1.
Yes
C


RGB output error at SCJ1 (1 Scart Jack)
Change the SCART output in setup menu to RGB.
Output voltage at pin 16 in SCJ1 is in 1V ~ 3V?
No
Check the pin 13 in SCIC1 --> "H" state. Check SCQ 2, 3 circuit.
Yes
RGB signal is outputed at pin 139, 145, 151 in ZIC1?
No
See "Video output error in RCA jacks"
Yes
RGB signal is inputed at VIC1-12, 14, 16?
No
Check the connection between SCIC1 and VIC1.
Yes
RGB signal is outputed at pin 7, 11, 15 in SCJ1?
No
❶ Check the VIC1-15 --> "H" state
❷ Check the connection with VIC1-18, 21, 24.
Yes
Check the SCART cable.


No Power (230 Voltage) (Standby LED OFF)
PFD01 error?
Yes
Replace fuse.
No
PDS01 voltage is missing?
No
Check PDS01 ~ 04.
Yes
Collector of PQR11 output normal voltage?
No
Check 2'd voltage.
Yes
Operation of PQR11 is normal?
No
Replace PQR12.
Yes
Switching operation of PQR11 is normal?
Yes
Replace PQR11. Check feed back.
No
Replace PQR11.


RGB output error at SCJ1 (2 Scart Jack)
Change the SCART output in setup menu to RGB.
Output voltage at pin 16 in SCJ1 is in 1V ~ 3V?
No
Check the pin 13 in SCIC1 --> "H" state. Check SCQ 2, 3 circuit.
Yes
RGB signal is outputed at pin 139, 145, 151 in ZIC1?
No
See "Video output error in RCA jacks"
Yes
R signal is outputed normally at pin 4 in SCIC2?
No
❶ Check the connection between pin 151 in ZIC1 and pin 3 in SCIC2. ❷ Check the pin 9, 10, 11 in SCIC3 --> "H" state.
Yes
RGB signal is inputed at VIC1-12, 14, 16?
No
Check the connection between SCIC2 and VIC1.
Yes
RGB signal is outputed at pin 7, 11, 15 in SCJ1?
No
❶ Check the VIC-15 --> "H" state ❷ Check the connection with VIC1-18, 21, 24.
Yes
Check the SCART cable.

MEMO